

## **Amendment to Claims**

This listing of Claims will replace all prior versions and listings of claims in this Application.

### **Listing of Claims**

Claim 1. (Currently Amended): A method in a computer system for detecting myocardial infarction comprising

receiving ECG data;

in a first thresholding step which is based upon ST deviation, analyzing the ECG data for benign ST data; and

when the ST data is not benign;

establishing via a second thresholding step, a pathological threshold;

normalizing any deviation in the ECG data;

applying a pattern analysis to the normalized ECG data; and

generating a score indicating presence of a myocardial infarction

based on the pattern analysis and the threshold.